

# Safety data sheet

## according to UK REACH Regulation

Printing date 05.01.2023

Version number 8

Revision: 05.01.2023

### \* SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### · 1.1 Product identifier

· Trade name **Kaiflex® Spezialkleber 414 / Special Adhesive 414**

#### · 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

· **Application of the substance / the mixture** Adhesives

· **Uses advised against** Restricted to professional users.

#### · 1.3 Details of the supplier of the safety data sheet

##### · **Manufacturer/Supplier:**

Kaimann GmbH

Hansastr. 2-5; D - 33161 Hövelhof

Phone: +49 (0) 5257-9850-0

E-mail: [info.kaimann@saint-gobain.com](mailto:info.kaimann@saint-gobain.com)

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##### · **Department issuing data specification sheet:**

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##### · **Department providing the information:**

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#### · 1.4 Emergency telephone number:

Members of the public seeking specific information on poisons should contact:

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

### SECTION 2: Hazards identification

#### · 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008



flame

Flam. Liq. 2

H225 Highly flammable liquid and vapour.



environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Skin Irrit. 2

H315 Causes skin irritation.

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Eye Irrit. 2	H319 Causes serious eye irritation.
STOT SE 3	H336 May cause drowsiness or dizziness.

### · 2.2 Label elements

#### · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

#### · Hazard pictograms



GHS02 GHS07 GHS09

#### · Signal word Danger

#### · Hazard-determining components of labelling:

Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5 % n-hexane ethyl acetate

#### · Hazard statements

H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

#### · Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P241 Use explosion-proof [electrical/ventilating/lighting] equipment.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P501 Dispose of contents / container to approved waste disposal or recycling in accordance with national regulations.

#### · Additional information:

Contains Rosin. May produce an allergic reaction.  
Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.

### · 2.3 Other hazards

#### · Results of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.

## SECTION 3: Composition/information on ingredients

### · 3.2 Mixtures

- Description: Adhesive.

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<b>· Dangerous components:</b>		
CAS: 64742-49-0 EC number: 926-605-8 registration number: 01-2119486291-36	Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5 % n-hexane Consisting of: 110-54-3 n-hexane (<5%) Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	35-<50%
CAS: 141-78-6 EINECS: 205-500-4 registration number: 01-2119475103-46	ethyl acetate Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	25-<35%
CAS: 110-82-7 EINECS: 203-806-2 registration number: 01-2119463273-41	cyclohexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	10-<15%
CAS: 67-64-1 EINECS: 200-662-2 registration number: 01-2119471330-49	acetone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	2.5-<5%
CAS: 110-54-3 EINECS: 203-777-6 registration number: 01-2119480412-44	n-hexane Flam. Liq. 2, H225; Repr. 2, H361f; STOT RE 2, H373; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336 Specific concentration limit: STOT RE 2; H373: C <sub>2</sub> ≥ 5 %	1-<2.5%
CAS: 8050-09-7 EINECS: 232-475-7 registration number: 01-2119480418-32	Rosin Skin Sens. 1, H317	≥0.1-<0.5%

**· Additional information**

If any R-phrases (risk-phrases) are listed, please refer for the exact wording to section 16.  
Contains < 0.1 % benzene (Note P)

### SECTION 4: First aid measures

**· 4.1 Description of first aid measures****· General information**

Instantly remove any clothing soiled by the product.

Take affected persons into the open air.

**· After inhalation** Supply fresh air; consult physician in case of symptoms.**· After skin contact** Instantly wash with water and soap and rinse thoroughly.**· After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult physician.

**· After swallowing** In case of persistent symptoms consult physician.**· 4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**· 4.3 Indication of any immediate medical attention and special treatment needed**

If swallowed or in case of vomiting, danger of entering the lungs

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### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
  - **Suitable extinguishing agents**  
Foam extinguishing agent  
CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fire with alcohol-resistant foam.
  - **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**  
Can be released in case of fire  
Carbon monoxide (CO)
- **5.3 Advice for firefighters**
  - **Protective equipment:**  
Wear self-contained breathing apparatus.  
Do not inhale explosion gases or combustion gases.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective clothing.
- **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or water bodies.  
Prevent material from reaching sewage system, holes and cellars.  
Inform respective authorities in case product reaches water or sewage system.  
Prevent from spreading (e.g. by damming-in or oil barriers).
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

### \* SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Store in cool, dry place in tightly closed containers.  
Open and handle container with care.  
Use only in well ventilated areas.  
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
  - **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Use only in explosion-proof area.  
Highly volatile, flammable constituents are released during processing.  
Fumes can combine with air to form an explosive mixture.  
Flammable mixtures may be formed in empty containers.
- **7.2 Conditions for safe storage, including any incompatibilities**
  - **Storage**
    - **Requirements to be met by storerooms and containers:**  
Store in cool location.  
Prevent any penetration into the ground.
    - **Information about storage in one common storage facility:** Not required.

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- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed containers.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

· <b>Components with critical values that require monitoring in the workplace:</b>	
<b>141-78-6 ethyl acetate</b>	
WEL	Short-term value: 1468 mg/m <sup>3</sup> , 400 ppm Long-term value: 734 mg/m <sup>3</sup> , 200 ppm
<b>110-82-7 cyclohexane</b>	
WEL	Short-term value: 1050 mg/m <sup>3</sup> , 300 ppm Long-term value: 350 mg/m <sup>3</sup> , 100 ppm
<b>67-64-1 acetone</b>	
WEL	Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm
<b>110-54-3 n-hexane</b>	
WEL	Long-term value: 72 mg/m <sup>3</sup> , 20 ppm
<b>8050-09-7 Rosin</b>	
WEL	Short-term value: 0.15 mg/m <sup>3</sup> Long-term value: 0.05 mg/m <sup>3</sup> Sen

- **Regulatory information WEL:** EH40/2020
- **Additional information:**  
The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
  - **Appropriate engineering controls** No further data; see item 7.
  - **Additional information about design of technical systems:** No further data; see item 7.
  - **Individual protection measures, such as personal protective equipment**
    - **General protective and hygienic measures**  
Standard precautionary measures for handling chemicals are to be observed.  
Keep away from food, beverages and animal feed.  
Instantly remove any soiled and impregnated garments.  
Wash hands during breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes and skin.  
Do not eat or drink while working.
    - **Breathing equipment:**  
Use breathing protection in case of insufficient ventilation (EN 14387).  
Short term filter device:  
Filter AX (boiling point < 61 °C); Filter A (boiling point > 60 °C).  
Only when applied by spray methods, if no adequate extraction system is in place (EN 149).  
Filter A/P2
    - **Hand protection** Impervious gloves (EN 374).
    - **Material of gloves**  
Recommended thickness of the material: ≥ 0.7 mm  
LLDPE gloves

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- **Penetration time of glove material** Value for the permeation: Level  $\leq 1$
- **Gloves made of the following material are suitable for the permanent contact with this material in work areas which do not have an above-average risk of injury (e.g. laboratories):**  
LLDPE gloves
- **For the permanent contact gloves made of the following materials are suitable:**  
LLDPE gloves
- **For permanent contact of max. 15 minutes, gloves made of the following materials are suitable:**  
Butyl rubber, BR
- **To protect against splashing, gloves made of the following materials are suitable:**  
Chloroprene rubber, CR
- **Not suitable are gloves made of the following materials:**  
Leather gloves  
Strong gloves
- **Eye/face protection**  
Safety glasses recommended during refilling and spraying.  
Safety glasses

### \* SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

##### · General Information

· <b>Physical state</b>	Fluid
· <b>Colour:</b>	According to product specification
· <b>Smell:</b>	Characteristic
· <b>Odour threshold:</b>	Not determined.
· <b>Melting point/freezing point:</b>	Not determined
· <b>Boiling point or initial boiling point and boiling range</b>	60 °C
· <b>Flammability</b>	Highly flammable.
· <b>Lower and upper explosion limit</b>	
· <b>Lower:</b>	1.1 Vol %
· <b>Upper:</b>	11.5 Vol %
· <b>Flash point:</b>	-21 °C
· <b>Ignition temperature:</b>	>200 °C
· <b>Decomposition temperature:</b>	Not determined.
· <b>pH</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Kinematic viscosity at 40 °C</b>	457.17 mm <sup>2</sup> /s
· <b>dynamic at 20 °C:</b>	600 mPas
· <b>Solubility</b>	
· <b>Water:</b>	Not miscible or difficult to mix
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
· <b>Vapour pressure at 20 °C:</b>	110 hPa
· <b>Density and/or relative density</b>	
· <b>Density at 20 °C</b>	0.85 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.

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<b>· 9.2 Other information</b>	
<b>· VOC - Volatile Organic Compounds</b>	
· European Union	81.02 %
· Switzerland	81.02 %
· U.S.A (less water and less exempts)	685.2 g/l / 5.72 lb/gal
<b>· Appearance:</b>	
· Form:	Fluid
<b>· Important information on protection of health and environment, and on safety.</b>	
· Spontaneous combustion:	Product does not undergo spontaneous combustion.
· Explosive properties:	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
<b>· Solvent content:</b>	
· Organic solvents:	81.0 %
· Solid content:	19.0 %
<b>· Change in condition</b>	
· Evaporation rate	Not determined.
<b>· Information with regard to physical hazard classes</b>	
· Explosives	not applicable
· Flammable gases	not applicable
· Aerosols	not applicable
· Oxidising gases	not applicable
· Gases under pressure	not applicable
· Flammable liquids	Highly flammable liquid and vapour.
· Flammable solids	not applicable
· Self-reactive substances and mixtures	not applicable
· Pyrophoric liquids	not applicable
· Pyrophoric solids	not applicable
· Self-heating substances and mixtures	not applicable
· Substances and mixtures, which emit flammable gases in contact with water	not applicable
· Oxidising liquids	not applicable
· Oxidising solids	not applicable
· Organic peroxides	not applicable
· Corrosive to metals	not applicable
· Desensitised explosives	not applicable

### SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.

· **10.2 Chemical stability**

    · **Thermal decomposition / conditions to be avoided:**

        No decomposition if used according to specifications.

· **10.3 Possibility of hazardous reactions**

Forms explosive gas mixture with air

Develops readily flammable gases / fumes

Reacts with strong acids and alkali

Used empty containers may contain product gases which form explosive mixtures with air

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Forms explosive gas mixture with air

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised

- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
Hydrocarbons  
Inflammable gases/vapours  
Carbon monoxide and carbon dioxide

### \* SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

- **Acute toxicity** Based on available data, the classification criteria are not met.

· <b>LD/LC50 values that are relevant for classification:</b>		
<b>64742-49-0 Hydrocarbons, C6-C7, isoalkanes, cyclics, &lt; 5 % n-hexane</b>		
Oral	LD50 oral	16,750 mg/kg (rat)
Dermal	LD50 dermal	>8,000 mg/kg (rabbit)
Inhalative	LC50 / 4 h	43.7 mg/l (rat)
<b>141-78-6 ethyl acetate</b>		
Oral	LD50 oral	4,934 mg/kg (rabbit)
Dermal	LD50 dermal	18,000 mg/kg (rabbit)
Inhalative	LC50 / 4 h	56 mg/l (rat)
<b>110-82-7 cyclohexane</b>		
Oral	LD50 oral	5,100 mg/kg (rat)
Inhalative	LC50 / 4 h	>32.88 mg/l (rat)
<b>67-64-1 acetone</b>		
Oral	LD50 oral	3,592 mg/kg (rat)
Dermal	LD50 dermal	15,688 mg/kg (rabbit)
Inhalative	LC50 / 4 h	76 mg/l (rat)
<b>110-54-3 n-hexane</b>		
Oral	LD50 oral	28,710 mg/kg (rat)
<b>8050-09-7 Rosin</b>		
Oral	LD50 oral	2,800 mg/kg (rat)
Dermal	LD50 dermal	2,200 mg/kg (rat)

- **to the skin:** Causes skin irritation.
- **to the eye:** Causes serious eye irritation.
- **STOT-single exposure** May cause drowsiness or dizziness.
- **11.2 Information on other hazards**

· <b>Endocrine disrupting properties</b>
None of the ingredients is listed.

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### \* SECTION 12: Ecological information

#### · 12.1 Toxicity

· <b>Aquatic toxicity:</b>	
<b>64742-49-0 Hydrocarbons, C6-C7, isoalkanes, cyclics, &lt; 5 % n-hexane</b>	
LC50 / 96 h	9.776 mg/l (rainbow trout)
LC50 / 48 h	10 mg/l (orfe (ide))
EC50 / 48 h	17.06 mg/l (water flea)
EC50 / 72 h	75.6 mg/l (green algae)
<b>141-78-6 ethyl acetate</b>	
LC50 / 96 h	431 mg/l (zebrafish) 230 mg/l (rainbow trout) 230 mg/l (fathead minnow)
LC50 / 48 h	350 mg/l (orfe (ide))
LC50	200 mg/l (rat)
EC50 / 48 h	3,300 mg/l (green algae) 610 mg/l (water flea)
EC50 / 24 h	724 mg/l (water flea)
EC50	17.9 mg/l (green algae)
<b>110-82-7 cyclohexane</b>	
LC50 / 96 h	4.53 mg/l (fathead minnow)
EC50 / 48 h	0.9 mg/l (water flea)
EC50 / 72 h	3.428 mg/l (green algae)
<b>67-64-1 acetone</b>	
LC50 / 96 h	5,540 mg/l (rainbow trout)
LC50 / 48 h	7,500 mg/l (orfe (ide))
EC50 / 48 h	8,800 mg/l (water flea)
EC50 / 16 h	1,700 mg/l (activated sludge)
NOEC	3,400 mg/l (green algae)
<b>110-54-3 n-hexane</b>	
LC0	150-4,280 mg/l (orfe (ide))
EC50 / 48 h (static)	45 mg/l (water flea)
EC50 / 24 h	>50->1,000 mg/l (water flea)
<b>8050-09-7 Rosin</b>	
LC50 / 96 h	1.7 mg/l (zebrafish)
EC50 / 3 h	10,000 mg/l (activated sludge)
EC50 / 0,5 h	31.5 mg/l (pseudomonas putida)
EC50 / 72 h	16.6 mg/l (green algae) (OECD 201)

· **12.2 Persistence and degradability** No further relevant information available.· **12.3 Bioaccumulative potential** No further relevant information available.· **12.4 Mobility in soil** No further relevant information available.

#### · **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.· **vPvB:** Not applicable.

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- **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

- **12.7 Other adverse effects**

- **Remark:** Toxic for fish

· <b>Behaviour in sewage plants:</b>	
<b>141-78-6 ethyl acetate</b>	
EC10 / 16 h	2,900 mg/l (pseudomonas putida)

- **Additional ecological information:**

· <b>CSB-value:</b>	
<b>67-64-1 acetone</b>	
CSB	2,210 mg/g (n.a.)

- **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system.

Danger to drinking water if even small quantities leak into soil.

Also poisonous for fish and plankton in water bodies.

The product contains materials that are harmful to the environment.

Toxic for aquatic organisms

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Hand over to disposers of hazardous waste.

- **Uncleaned containers/packaging material:**

- **Recommendation:**

Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

Packaging can be reused or recycled after cleaning.

Packaging with cured adhesive residues can be recycled.

Packaging with cured adhesive residues can be treated as household waste.

Packaging with uncured adhesive residues must be disposed of as hazardous waste.

- **Recommended cleaning agent:** Solvent naphtha

### SECTION 14: Transport information

· <b>14.1 UN number or ID number</b>	
· <b>ADR, IMDG, IATA</b>	UN1133
· <b>14.2 UN proper shipping name</b>	
· <b>ADR</b>	1133 ADHESIVES, ENVIRONMENTALLY HAZARDOUS 1133 KLEBSTOFFE, UMWELTGEFÄHRDEND
· <b>IMDG</b>	ADHESIVES, MARINE POLLUTANT
· <b>IATA</b>	ADHESIVES

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<b>· 14.3 Transport hazard class(es)</b> <b>· ADR</b>   <b>· Class</b> 3 (F1) Flammable liquids. <b>· Label</b> 3	
<b>· IMDG</b>   <b>· Class</b> 3 Flammable liquids. <b>· Label</b> 3	
<b>· IATA</b>  <b>· Class</b> 3 Flammable liquids. <b>· Label</b> 3	
<b>· 14.4 Packing group</b> <b>· ADR, IMDG, IATA</b> II	
<b>· 14.5 Environmental hazards:</b> <b>· Marine pollutant:</b> <b>· Special marking (ADR):</b>	Product contains environmentally hazardous substances: Naphtha Yes Symbol (fish and tree) Symbol (fish and tree)
<b>· 14.6 Special precautions for user</b> <b>· Kemler Number:</b> <b>· EMS Number:</b> <b>· Stowage Category</b>	Warning: Flammable liquids. 33 F-E,S-D A
<b>· 14.7 Maritime transport in bulk according to IMO instruments</b> Not applicable.	
<b>· Transport/Additional information:</b>	
<b>· ADR</b> <b>· Limited quantities (LQ)</b> <b>· Excepted quantities (EQ)</b>  <b>· Transport category</b>	5L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 2

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· <b>Tunnel restriction code</b>	D/E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 1133 ADHESIVES, 3, II, ENVIRONMENTALLY HAZARDOUS

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Chemical safety assessment**
  - **Seveso category**
    - E2 Hazardous to the Aquatic Environment
    - P5c FLAMMABLE LIQUIDS
  - **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
  - **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

### SECTION 16: Other information

These data are based on our present knowledge. They shall, however, not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

All standard industrial precautions apply, concerning protection of health, and safe handling. The recommendations have to be examined in the context of the application for which the product is intended, and observed as necessary.

#### · **Relevant phrases**

- H225 Highly flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H361f Suspected of damaging fertility.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

#### · **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
 ICAO: International Civil Aviation Organisation  
 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances

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ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Flam. Liq. 2: Flammable liquids – Category 2  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Skin Sens. 1: Skin sensitisation – Category 1  
Repr. 2: Reproductive toxicity – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
Asp. Tox. 1: Aspiration hazard – Category 1  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

· **\* Data modified in comparison to the previous version.**

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### Annex: Exposure scenario

- **Product category** PC9a Coatings and paints, thinners, paint removers
- **Environmental release category**  
ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
- **Notes** Do not use for private / domestic purposes (household).
- **Description of the activities / processes covered in the Exposure Scenario**  
See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use**
  - **Duration and frequency**  
8hrs (full working shift).  
5 workdays/week.
- **Physical parameters**
  - **Physical state** Fluid
  - **Concentration of the substance in the mixture** The substance is minor component.
  - **Used amount per time or activity** 6000 annual tons per plant
- **Other operational conditions**
  - **Other operational conditions affecting environmental exposure**  
Number of emission days in the year: 300
  - **Other operational conditions affecting worker exposure**  
Avoid contact with the skin and eyes.  
Take precautionary measures against static discharge.  
Keep away from sources of ignition - No smoking.
- **Risk management measures**
  - **Worker protection**
    - **Technical protective measures**  
Ensure good ventilation/extraction system at the workplace.
    - **Personal protective measures**  
Avoid contact with the eyes and skin.  
Wear suitable protective gloves and protective goggles /face protection during work.  
Take care of good cleanliness and tidiness.  
Do not inhale gases / fumes / aerosols.
  - **Measures for consumer protection** Ensure adequate labelling.
  - **Environmental protection measures**
    - **Water** Do not allow to reach ground water, water bodies or sewage system.
    - **Soil** Avoid contact with soil and / or ground water during the application.
- **Disposal measures**  
Forward for special waste incineration in compliance with local legal provisions.  
Ensure that waste is collected and contained.
  - **Disposal procedures**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
  - **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
  - **Consumer** Not relevant for this Exposure Scenario.
- **Guidance for downstream users** No further relevant information available.



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